

## Supplementary Information

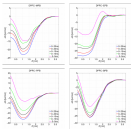
### Computational predictions on the interactions of paracetamol with a dipalmitoylphosphatidylcholine lipid bilayer and the human serum albumin protein

Roger Marco<sup>1\*</sup> and Félix Rubio-Delgado<sup>2</sup>

<sup>1</sup>COGECIT - Institut de Histologia i Embriologia de Barcelona "Dr. Martí R. Brugué" Universitat Nacional de Espanya - Madrid - España. E-mail: [marco@ccia.uned.es](mailto:marco@ccia.uned.es)

<sup>2</sup> Computer Applications in Science and Engineering Department, Barcelona Supercomputing Center, Nexus 3 - Plaça 3, s/Ciutat Vella, 08-4, Barcelona-08034, Spain.

† FMD simulation convergence criteria:





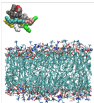
2) Molecular dynamics final snapshot for protein absorption in lipid bilayer system:



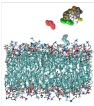
1000-000



1000-000

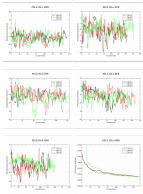


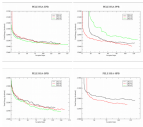
DPPC-8PB



DPPC-12PB

## 3) FELIC's read and binding-energy plots





#### 4. PILE's multi-pile file

```
energy guess: solved: vjlap
energy guess: LOGIC 0.1
```

```
## do not change the old file name in the following line
load pile 000.pile into no name no test yes
```

```
!
```

```
pile *
```

```
let N=100000
PARAMETERS yes *
init_pile no *
nstack 1 0
nstack 2 0
task *
```

```
also kind_yes 1 0
also kind_no 1 heavy 0 0
if random 1 gt 0.5 then var_r 0.10 also var_r 0.1 until *
```

```
if random 2 gt 0.5 then var_r 0.2 times 100 stack_no 20
also var_r 0.75 times 0 stack_no 100 until *
```

